

DAFTAR PUSTAKA

- AACTE. (2010). 21St Century Knowledge and. *Education*, (September), 40.
<http://doi.org/10.1787/9789264193864-en>
- Adegoke, B. A. (2010). Integrating animations , narratives and textual information for improving Physics learning, 8(2), 725–748.
- Adegoke, B. A. (2011). EFFECT OF MULTIMEDIA INSTRUCTION ON SENIOR SECONDARY SCHOOL STUDENTS ' ACHIEVEMENT IN PHYSICS. *European Journal of Educational Studies*, 3(3), 537–550.
- Airasian, P. W., & Miranda, H. (2002). The role of Assessment in the Revised Taxonomy. *Theory Into Practice*, 41(4), 249–254.
- Anderson, L. W., & Krathwohl, D. R. (2001). A taxonomy for learning, teaching, and assessing: A revision of Bloom's taxonomy of educational objectives. *Theory Into Practice, Complete e*, xxix, 352 p.
- Arikunto, S. (2008). *Dasar-dasar Evaluasi Pendidikan*. Jakarta. Bumi Aksara.
- Arikunto, S. (2013). *Dasar-dasar Evaluasi Pendidikan (Edisi 2)*. Jakarta: Bumi Aksara.
- Astuti, Y. W. (2013). Bahan Ajar Fisika SMA dengan Pendekatan Multi Representasi. *Jurnal Pendidikan Sains*, 1, 382–389.
- Bell, L., & Bull, G. L. (2010). Digital Video and Teaching. *Contemporary Issues in Technology and Teacher Education*, 10, 1–6.
- Black, J. B., & McClintock, R. O. (1995). An interpretation construction approach to constructivist design. *Constructivist Learning Environments: Case Studies in Instructional Design*, 25–31.
- Branch, R. M. (2009). *Instructional Design: The ADDIE Approach*. *Encyclopedia of Curriculum Studies*. University of Georgia: Springer Science+Business Media, LLC. <http://doi.org/10.4135/9781412958806.n258>
- Bussei, P., & Merlino, S. (2003). European Workshop on Multimedia in Physics Teaching and Learning. *Europhysics News*, 34(3), 116-117.
- Cakir, M. (2008). Constructivist Approaches to Learning in Science and Their Implications for Science Pedagogy : A Literature Review. *International Journal of Environmental & Science Education*, 3(4), 193–206.

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PENGEMBANGAN INTEGRATED REAL-LIFE VIDEO AND ANIMATION DENGAN ADDIE SEBAGAI MEDIA PEMBELAJARAN FISIKA BERBASIS KONSTRUKTIVIS UNTUK MENINGKATKAN PENGUASAAN KONSEP MATERI DINAMIKA ROTASI

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- Caputo, A., Wolf, P., & Borho, S. (2006). Digital Media. *Teaching Support Services*, (September), 1–8. Retrieved from <https://www.uoguelph.ca/tss/pdfs/TBDigMedia.pdf>
- Chen, C., & Wu, C. (2015). Computers & Education Effects of different video lecture types on sustained attention , emotion , cognitive load , and learning performance. *Computers & Education*, 80, 108–121.
- Chen, Z., & Gladding, G. (2014). How to make a good animation : A grounded cognition model of how visual representation design affects the construction of abstract physics knowledge, *010111*, 1–24.
- Clark, R. C., & Mayer, R. E. (2003). e-Learning and the science of instruction: San Francisco. CA: Jossey-Bass
- Clark, R. (2002, September). Six Principles of Effective e-Learning: What Works and Why. *The E-Learning Guild*, 1–10.
- Conklin, J. (2001). Book Review: A taxonomy for learning, teaching, and assessing: A revision of Bloom’s taxonomy of educational objectives. *Theory Into Practice*, 83, 154–159. http://doi.org/10.1207/s15430421tip4104_2
- Dancy, M. H., & Beichner, R. (2006). Impact of animation on assessment of conceptual understanding in physics, 1–7.
- Danks, S. (2011). The ADDIE Model: Designing, Evaluating Instructional Coach Effectiveness. *ASQ Primary and Secondary Education Brief*, 4(5), 1–6.
- Doong, S. H., & Ho, S.-C. (2012). The impact of ICT development on the global digital divide. *Electronic Commerce Research and Applications*, 11(5), 518–533. <http://doi.org/10.1016/j.elerap.2012.02.002>
- Donkor, F. (2011). Assessment of learner acceptance and satisfaction with video-based instructional materials for teaching practical skills at a distance. *International Review of Research in Open and Distance Learning*, 12(5), 71–88.
- Fadaei, A. S., Daraei, S., & Ley, C. M. (2013). Interactive multimedia related to real life , a model to teach physics in high school, *I(1)*, 7–12.
- Fardanesh, H. (2006). A Classification of Constructivist Instructional Design Models Based on Learning and Teaching Approaches. *Online Submission*, 16.
- Forehand, M. (2011). BloomsTaxonomy.pdf. *Bloom’s Taxonomy-Emerging Perspective on Learning, Teaching and Technology*.

- Fraenkel, J.R ., Wallen, N.E ., & Hyun, H.H . (2011). *Howto Design and Evaluate Research in Education* (8th ed.). San Fransisco: McGraw-Hill.
- Frey, B. A., & Sutton, J. M. (2010). A Model for Developing Multimedia Learning Projects. *Merlot Journal of Online Learning and Teaching*, 6(2), 491–507.
- Giancoli, D.C. (2014). *Fisika: Prinsip dan Aplikasi*. (Terjemahan). Jakarta: Erlangga
- Gorghiu, L. M., Gorghiu, G., Dumitrescu, C., Olteanu, R. L., & Glava, A. E. (2011). Integrating ICT in traditional training - Reactions of teachers and pupils' involved in FISTE project activities. *Procedia - Social and Behavioral Sciences*, 30, 1142–1146.
- Greaney, M., & Ellis, J. (2005). Using the Addie Model for Effective Pedagogical Interventions. In *25 e colloque AQPC* (pp. 141–145).
- Gronlund, N.E. (1985). *Measurement and Evaluation in Teaching Fifth Edition*. New York: Macmillan Publishing Company
- Hake, R. . (1999). Analyzing Change/ Gain Scores (pp. 1–4). Dept. of Pysics Indiana University.
- Halliday, D & Resnick, R. (1977). *Fisika Jilid 1 Edisi 3*. Terjemahan. Jakarta: Penerbit Erlangga
- Hammond, M. (2013). Researching Teacher Take - up of ICT : Past Perspectives and Present Day Challenges.
- Hassouny, E. H. El, Kaddari, F., Elachqar, A., & Alami, A. (2014). Teaching/Learning Mechanics in High School with the Help of Dynamic Software. *Procedia - Social and Behavioral Sciences*, 116, 4617–4621.
- Hatsidimitris, G. (2013). A theory-to-practice approach for teaching science with animations. *Knowledge Management and E-Learning*, 5(3), 334–344.
- Hennessy, S., Ruthven, K., & Brindley, S. (2005). Teacher perspectives on integrating ICT into subject teaching: commitment, constraints, caution, and change. *Journal of Curriculum Studies*, 37(2), 155–192.
- Hockicko, P. (2012). 063 Attractiveness of Learning Physics by Means of Video Analysis and Modeling Tools. *SEFI 40th Annual Conference*, (September).

- Hockicko, P., Trpisova, B., & Ondrus, J. (2014). Correcting Students??? Misconceptions about Automobile Braking Distances and Video Analysis Using Interactive Program Tracker. *Journal of Science Education and Technology*, 23(6), 763–776. <http://doi.org/10.1007/s10956-014-9510-z>
- Hodge, H., Hinton, H. S., & Ligthner, M. (2001). Virtual Circuit Laboratory *. *Journal of Engineering Education*, (00), 19–21.
- Huang, C. (2005). Designing high-quality interactive multimedia learning modules. *Computerized Medical Imaging and Graphics*, 29(2-3), 223–233. <http://doi.org/10.1016/j.compmedimag.2004.09.017>
- Inou, Y., & Bell, S. (2006). *Teaching with Educational Technology in the 21 st Century : The Case of the Asia-Pacific Region*. Hershey: Information Scinece Publishing.
- İsmet, E. (2012). Constructivist approach based 5E model and usability instructional physics. *Lat. Am. J. Phys. Educ*, 6, 14–20.
- Jasmy Abd Rahman, M., Arif Hj Ismail, M., & Nasir, M. (2014). Development and evaluation of the effectiveness of computer-assisted physics instruction. *International Education Studies*, 7(13), 14–22.
- Jones, M. G., & Brader-araje, L. (2002). The Impact of Constructivism on Education : Language , Discourse , and Meaning. *American Communication Journal*, 5(3).
- Kaufman, P., & Mohan, J. (2009). Video use and higher education: Options for the future. *Study Funded by Copyright Clearance Center and ...*, (June), 14. Retrieved from https://library.nyu.edu/about/Video_Use_in_Higher_Education.pdf
- Kim, J., Glassman, E. L., Meredith, A. M., & Morris, R. (2015). RIMES : Embedding Interactive Multimedia Exercises in Lecture Videos. *Chi 2015*, 1535–1544. <http://doi.org/10.1145/2702123.2702186>
- Krathwohl, D.R. (2002). A Revision of Bloom's Taxonomy: An Overview. *Theory Into Practice*. 41:4. 212-218
- Kuswandi, D. 2001. *Validasi Media: Analisis Kelayakan Media yang Akan Dikembangkan*. Bahan Kuliah tidak diterbitkan. Malang Jurusan TEP FIP UM.
- Lim, C. P. (2007). Effective integration of ICT in Singapore schools: Pedagogical and policy implications. *Educational Technology Research and*

- Markauskaite, L. (2007). Exploring the structure of trainee teachers' ICT literacy: The main components of, and relationships between, general cognitive and technical capabilities. *Educational Technology Research and Development*, 55(6), 547–572. <http://doi.org/10.1007/s11423-007-9043-8>
- Mayer, R.E. (2001). *Multimedia Learning*. New York: Cambridge University Press
- Mayer, R. E. (2002). Rote Versus Meaningful Learning. *Theory Into Practice*, 41(4), 227–232. <http://doi.org/10.1207/s15430421tip4104>
- Mayer, R., & Moreno, R. (2003). Nine ways to reduce cognitive load in multimedia learning. *Journal of Educational Psychology*, 38(1), 43–52.
- Mayer, R. (2003). The promise of multimedia learning: using the same instructional design methods across different media. *Learning and Instruction*, 13(2), 125–139.
- Mayer, R. E. (2003). Cognitive Theory of Multimedia Learning. In *The Cambridge Handbook of Multimedia Learning* (Vol. 38, pp. 31–48).
- Mcgriff, S. J. (2000). Instructional System Design (ISD): Using the ADDIE Model. *Instructional Systems, College of Education, Penn State University*, 2.
- Merkt, M., Weigand, S., Heier, A., & Schwan, S. (2011). Learning with videos vs . learning with print : The role of interactive features. *Learning and Instruction*, 21(6), 687–704. <http://doi.org/10.1016/j.learninstruc.2011.03.004>
- Myneni, L. S., Narayanan, N. H., Rebello, S., Rouinfar, A., & Puntambekar, S. (2013). An Interactive and Intelligent Learning System for Physics Education, 6(3), 228–239.
- Ng, W., & Van Nguyen, T. (2006). Investigating the integration of everyday phenomena and practical work in physics teaching in Vietnamese high schools. *International Education Journal*, 7(1), 36–50.
- Norton, P., & Hathaway, D. (2010). Video Production as an Instructional Strategy : Content Learning and Teacher Practice, 10, 145–166.
- Oswald, D., Wild, G., & Hinckley, S. (2012). Developing an Educational Video for Utilising an Oscilloscope in First Year Physics Developing an Educational Video for Utilising an Oscilloscope in First Year Physics, 1–4.
- Park, J. (2010). Editorial: Preparing Teachers to Use Digital Video in the Science Classroom. *Contemporary Issues in Technology and Teacher Education*,

10(1), 119–123. Retrieved from <http://www.editlib.org/f/34124>

- Permendikbud. (2013). Standar Proses Pendidikan Dasar dan Menengah.
- Schifter, C. C., & Stewart, C. (2010). Technologies and the Classroom Come to Age After Century of Growth. In C. Stewart, C. Schifter, & M. Selverian (Eds.), *Teaching and Learning with Technology beyond Constructivism* (pp. 3–26). New York: Taylor & Francis Group.
- Serway, R.A & Jewett, J.W. (2004). *Physics for Scientist and Engineers 6th Edition*. USA: Thomson Brooks
- Soland, Jim; Hamilton, Laura.S; Stecher, Brian.M. (2013) Measuring 21st Century Competencies Guidance for Educators 21 ST CENTURY COMPETENCIES. RAND Corporation.
- Stiggins, R.J. (1994). *Student-Centered Classroom Assessment*. New York: Macmillan College Publishing Company, hal 85-88.
- Suduc, A.-M., Bîzoi, M., Gorghiu, G., & Gorghiu, L. M. (2011). Information and communication technologies in science education. *Procedia - Social and Behavioral Sciences*, 15, 1076–1080.
- Sugiyono. (2011). *Metode Penelitian Kombinasi (Mix Methods)*. Bandung: Alfabeta.
- Sugiyono. (2015). *Metode Penelitian dan Pengembangan*. Bandung: Alfabeta.
- Suhendi, H.Y. (2014). *Penerapan Model Pembelajaran ECIIR Berbantuan Media Simulasi Virtual untuk Meningkatkan Pemahaman Konsep dan Mengidentifikasi Miskonsepsi Siswa*. (Tesis). Sekolah Pascasarjana, Universitas Pendidikan Indonesia, Bandung.
- Su, K., & Yeh, S. (2015). Effective Assessments of Integrated Animations to Explore College Students ' Physics Learning Performances. *Procedia - Social and Behavioral Sciences*, 176, 588–595.
<http://doi.org/10.1016/j.sbspro.2015.01.514>
- Tenenbaum, G. (2001). Constructivist pedagogy in conventional on- campus and distance learning practice : an exploratory investigation, 11, 87–111.
- Titus, A. P. (1998). *Integrating Video and Animation with Pysics Problem Solving Exercises on teh World Wide Web*. (Dissertation). North Carolina.

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- Tsai, C. (2001). The interpretation construction design model for teaching science and its applications to Internet-based instruction in Taiwan, *21*, 401–415.
- Tupsai, J., Yuenyong, C., & Taylor, P. C. (2015). Initial Implementation of Constructivist Physics Teaching in Thailand: A Case of Bass Pre-service Teacher. *Mediterranean Journal of Social Sciences*, *6*(2), 506–513.
<http://doi.org/10.5901/mjss.2015.v6n2p506>
- Winarto. (2013). *Pengembangan Multimedia Pembelajaran CNA Interaktif untuk Meningkatkan Prestasi Mata Kuliah Fisika Dasar II Mahasiswa Calon Guru Fisika*. (Tesis). Sekolah Pascasarjana, Universitas Negeri Malang.
- Wiyono, K. (2013). PENGEMBANGAN MODEL PEMBELAJARAN FISIKA BERBASIS ICT PADA IMPLEMENTASI KURIKULUM 2013. *Jurnal Inovasi Dan Pembelajaran Fisika*, *2*(2), 123–131.
- Zhang, D. (2005). Interactive Multimedia-Based E-Learning: A Study of Effectiveness. *American Journal of Distance Education*, *19*(3), 149–162.
http://doi.org/10.1207/s15389286ajde1903_3
- Zhang, D., Zhou, L., Briggs, R. O., & Nunamaker, J. F. (2006). Instructional video in e-learning : Assessing the impact of interactive video on learning effectiveness. *Information & Management*, *43*, 15–27.
<http://doi.org/10.1016/j.im.2005.01.004>